

Comparisons of Job Characteristics

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Production and Processing	6.0	17.4	17.6	0	Current knowledge level may be sufficient
Administration and Management	8.4	14.0	8.2	<<	Extensive education and/or training may be required
Education and Training	9.2	11.1	9.2	<	Expanded education and/or training may be required
Mechanical	6.8	10.9	15.1	>>	Current knowledge level is likely more than sufficient
Mathematics	9.2	10.6	10.7	0	Current knowledge level may be sufficient
Personnel and Human Resources	5.6	10.2	4.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 34

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Time Management	8.9	12.6	9.0	<<	Extensive development of skills in this area may be required
Coordination	9.1	12.0	7.9	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	11.8	8.3	<<	Extensive development of skills in this area may be required
Negotiation	6.8	9.8	5.4	<<	Extensive development of skills in this area may be required

Management of Material Resources	3.7	5.8	3.4	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 74

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	14.0	12.3	<	Some improvement in abilities may be required
Oral Comprehension	12.5	13.3	12.3	0	Current ability level may be sufficient
Written Comprehension	11.0	12.2	10.7	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	12.1	12.9	0	Current ability level may be sufficient
Deductive Reasoning	10.6	11.4	11.1	0	Current ability level may be sufficient
Speech Clarity	10.2	11.0	9.6	<	Some improvement in abilities may be required
Written Expression	9.8	11.0	9.4	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	10.7	10.5	0	Current ability level may be sufficient
Originality	7.6	9.7	5.8	<<	Extensive improvement in abilities may be required
Fluency of Ideas	7.6	9.1	5.9	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	8.4	11.4	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Chemical Plant and System Operators (51-8091)

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Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Compute production, construction, or installation specifications	58
Direct and coordinate activities of workers or staff	3
Maintain production or work records	19
Monitor production machinery/equipment operation to detect problems	27
Read work order, instructions, formulas, or processing charts	9

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 64

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Tools and Technologies	Exclusivity
Computer displays	18
Computers	1
Safety apparel	4

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.